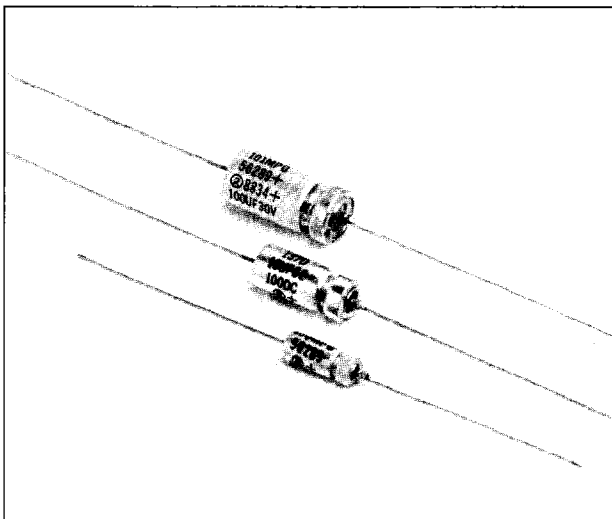


# Hermetically-Sealed, Gelled-Electrolyte Sintered Anode TANTALEX<sup>®</sup> Capacitors for Operation to +175°C

Type 137D Superseded by Type 138D. See page 182.

**D**ESIGNED for operation in aerospace equipment, hermetically-sealed Type 137D capacitors provide excellent volume efficiency and operating characteristics in the temperature range to +175°C. In addition, an extended capacitance value range is provided.

The performance of Type 137D capacitors meets or exceeds the environmental and life test requirements of Military Specification MIL-C-3965F. Type 137D uses the same gelled-electrolyte employed in Sprague's proven standard Type 109D sintered anode Tantalex capacitors which gives optimum characteristics for all frequency and temperature parameters.



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## Performance Characteristics

### Operating Temperature.

-55°C to +175°C with voltage derating above +85°C.

### Capacitance Tolerance.

At 120Hz, +25°C. ±20%; ±10%; +20%, -15%, and +75%, -15%.

### DC Leakage Current (DCL Max.).

At +25°C, +85°C and +125°C the leakage current shall not exceed the values listed in the Standard Ratings tables.

### Life Test.

Capacitors are capable of withstanding a 2000 hour life test at a temperature of +85°C or +125°C at the applicable rated d-c working voltage.

Following life test:

1. Capacitors shall be returned to +25°C ±5°C.
2. DCL shall not exceed original requirement.
3. The ESR shall not exceed the initial requirement.
4. Change in capacitance shall not exceed ±10%.

*For complete details, see Sprague Data Sheet 3703.*